

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY



## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:  
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Date of mailing  
(day/month/year) **10. 8. 2004**

Applicant's or agent's file reference

**CFO18083WO**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/JP2004/005654**

International filing date (day/month/year)

**20.04.2004**

Priority date (day/month/year)

**22.04.2003**

International Patent Classification (IPC) or both national classification and IPC

Int.Cl. **H04N 5/335, H04N5/32**

Applicant

**CANON KABUSHIKI KAISHA**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

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**5P 9654**

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/005654

Box No. I

Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing  
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format  
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

|                               |        |                                |     |
|-------------------------------|--------|--------------------------------|-----|
| Novelty (N)                   | Claims | <u>2, 3, 5-8, 10, 13</u>       | YES |
|                               | Claims | <u>1, 4, 9, 11, 12, 14, 15</u> | NO  |
| Inventive step (IS)           | Claims | <u>2, 13</u>                   | YES |
|                               | Claims | <u>1, 3-12, 14, 15</u>         | NO  |
| Industrial applicability (IA) | Claims | <u>1-15</u>                    | YES |
|                               | Claims |                                | NO  |

2. Citations and explanations

D1:JP10-506230 A (LITTON SYSTEMS CANADA LIMITED) 1998.06.16  
D2:JP10-257392 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) 1998.09.25  
D3:JP10-125891 A (Canon Kabushiki Kaisha) 1998.05.15  
D4:JP7-63859 A (Shimadzu Corporation) 1995.03.10

I .Novelty:claims 1,4,7,9,11,12,14,15

The subject matter of claim 1,4,9,11,12,14,15 does not appear to be novel with respect to D1 and D2.

The cited document D1(see lines 28,page8 - lines25,page11 and figs.2,3,11) discloses a photoelectric conversion device which comprised of photoelectric conversion means, transfer means includes a thin film transistor, means for sweeping out the electric charges through a control line for the transfer means of the pixels disposed along a line adjacent to the photoelectric conversion means concerned.

The cited document D2(see paragraph[0021]-[0022],[0038]and figs.4,5) discloses a photoelectric conversion device which comprised of photoelectric conversion means, transfer means, means for sweeping out the electric charges through a control line for the transfer means of the pixels disposed along a line adjacent to the photoelectric conversion means concerned.

II .Inventive step:claims 3,5-8,10

The subject matter of claim 3,5-8,10 does not appear to involve an inventive step in view of the cited D1,D2,D3 and D4.

The cited document D3(see paragraph[0023]-[0039],[0055],[0100]-[0125] and figs.1-5, 11-13) discloses MIS type photosensor, bias means for supplying a voltage to the photoelectric conversion means.

The cited document D4(see paragraph[0023]-[0039],[0055],[0100]-[0125] and figs.1-5, 11-13) discloses wavelength conversion unit for converting ionizing radiation into visible rays.

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**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.

Continuation of: **Box No. V**

**III. No references: claims 2, 13**

The subject matter of claim 2 and 13 is neither disclosed in any of the cited documents D 1, D2, D3 and D4 nor obvious to a person skilled in the art.